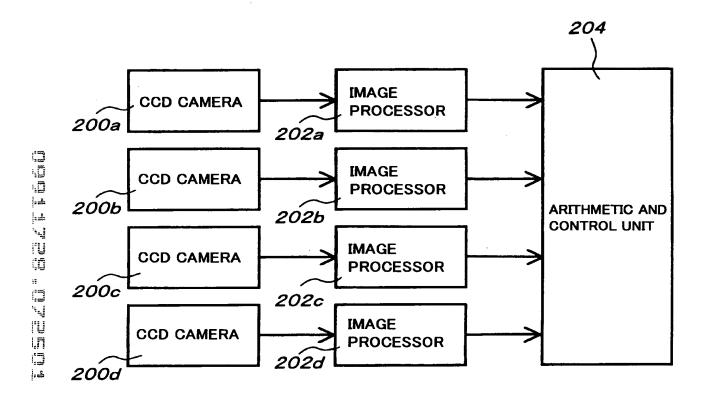
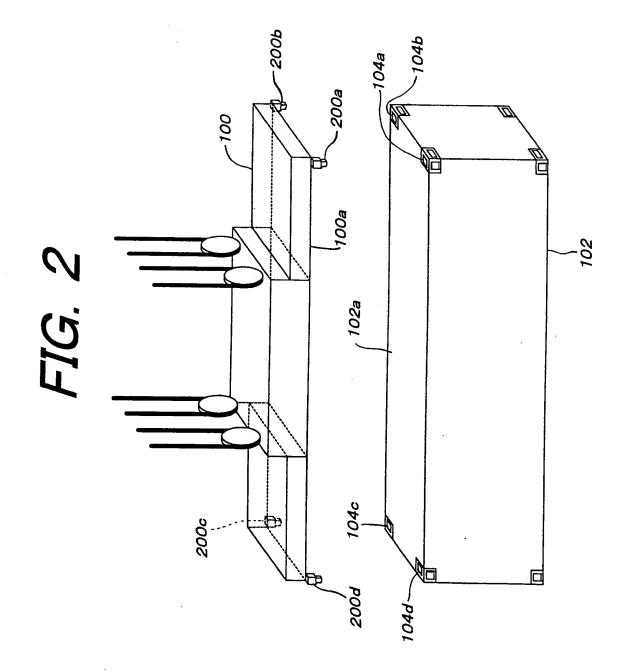
FIG. 1





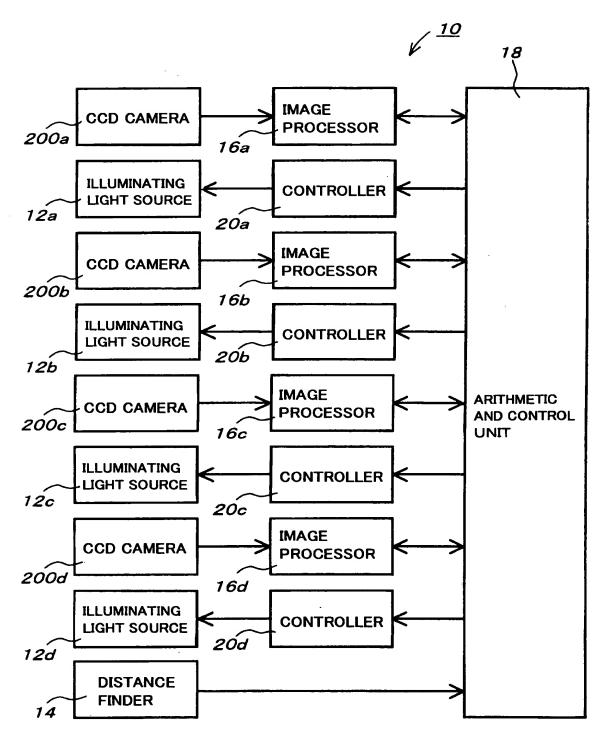
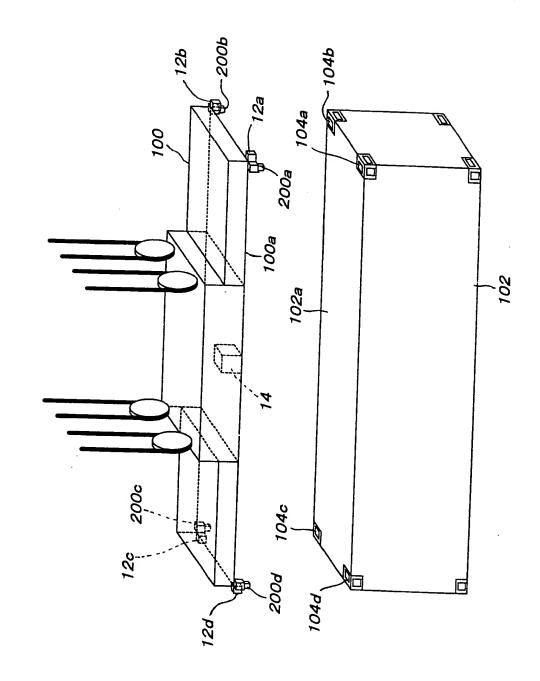
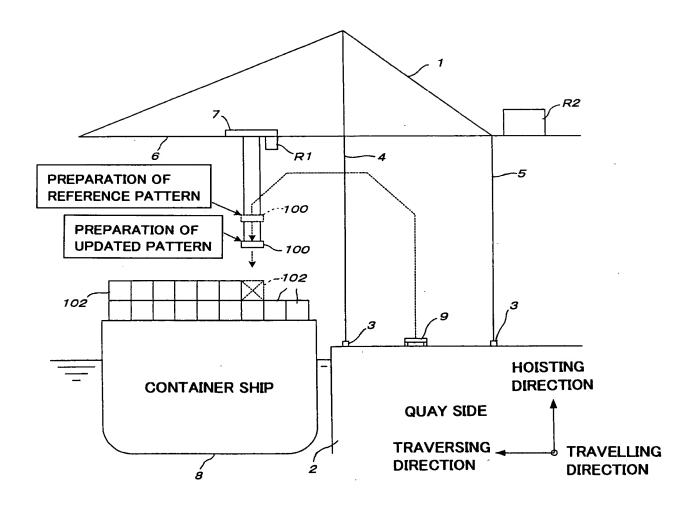
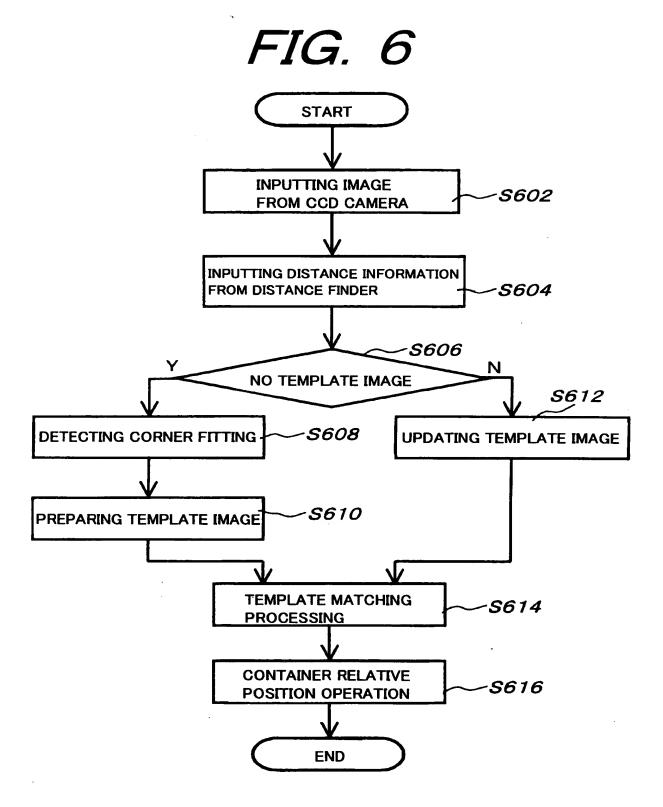
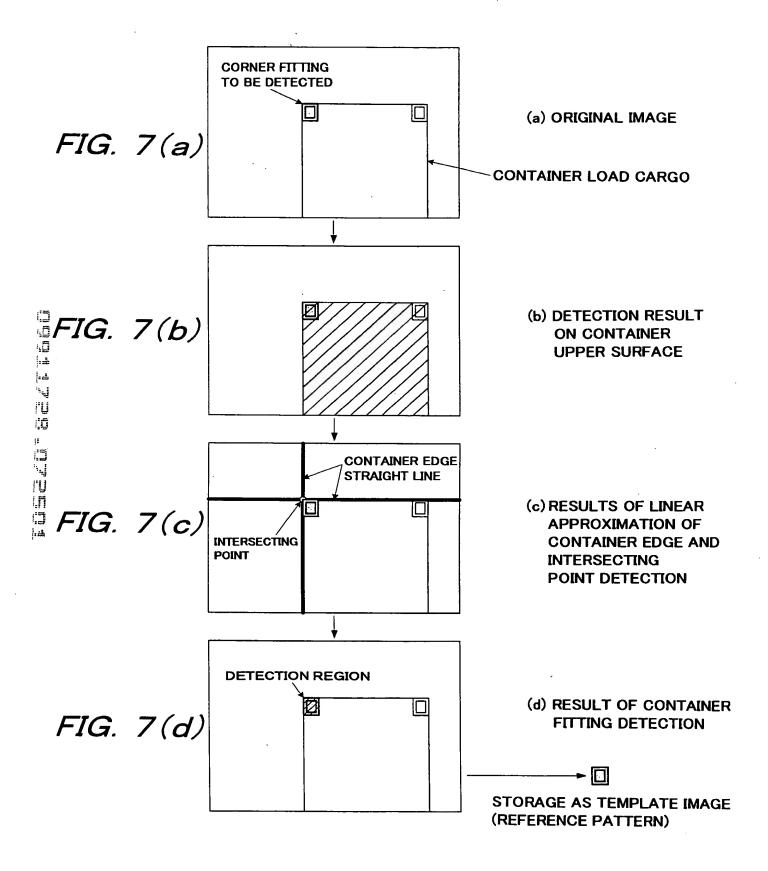


FIG. 4









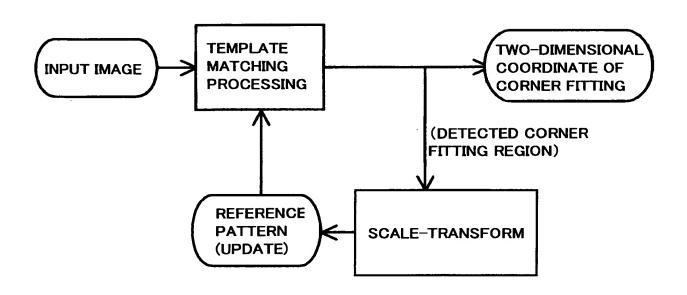
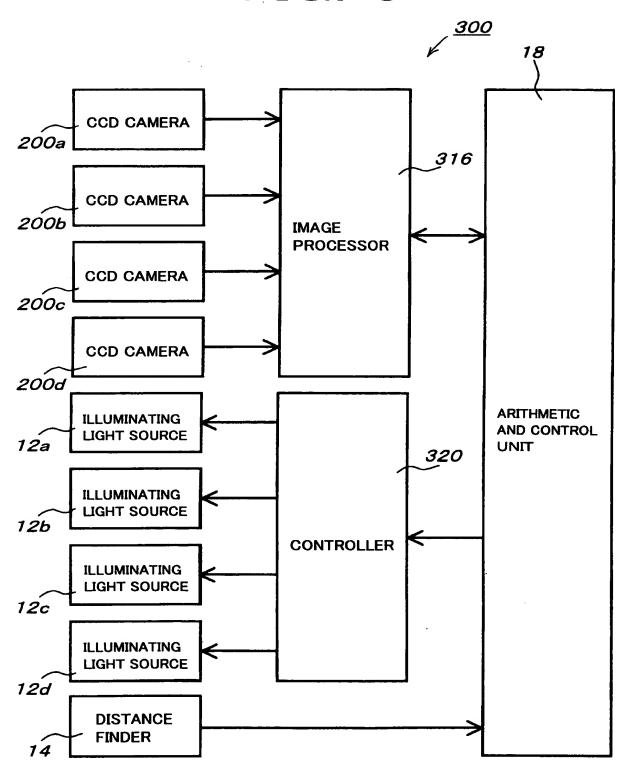


FIG. 9



. Gaera action

FIG. 10

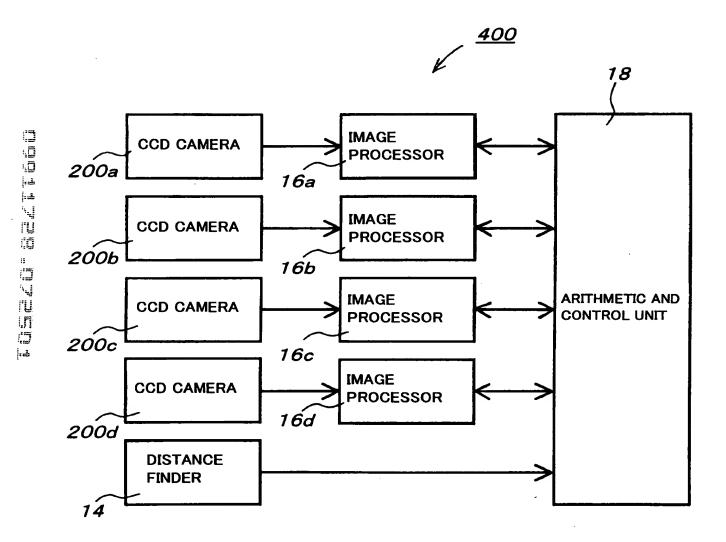
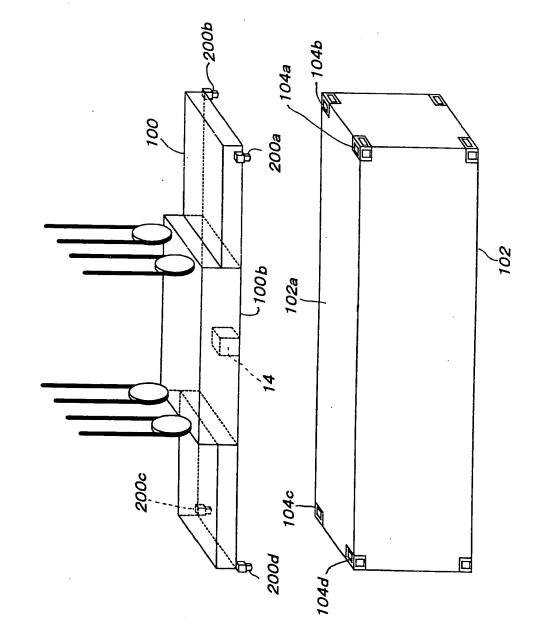
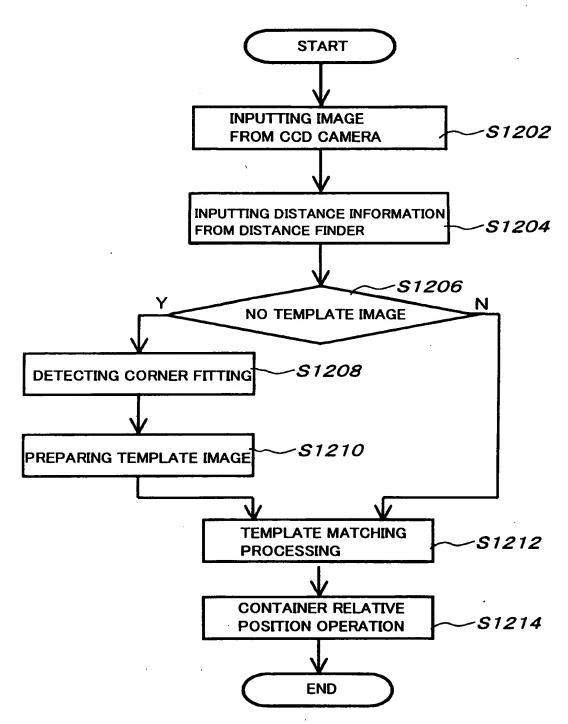
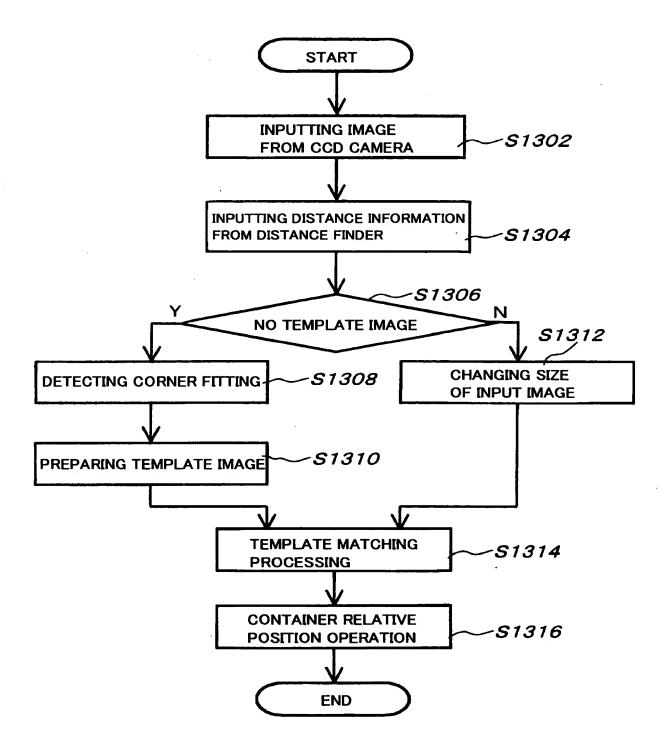
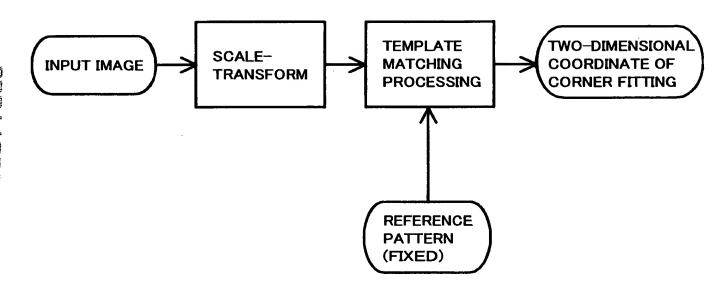


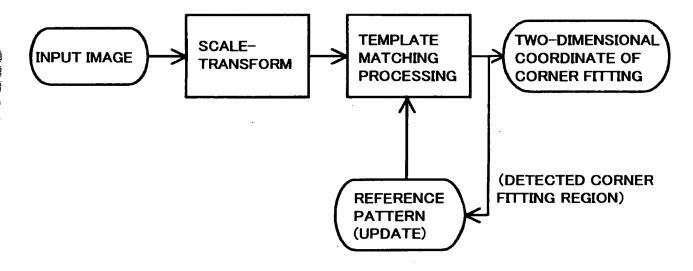
FIG. 11

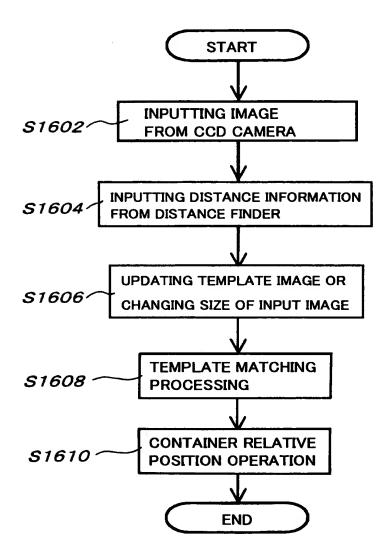


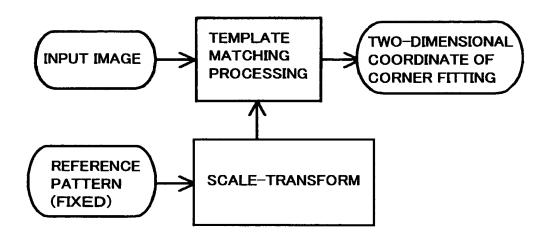


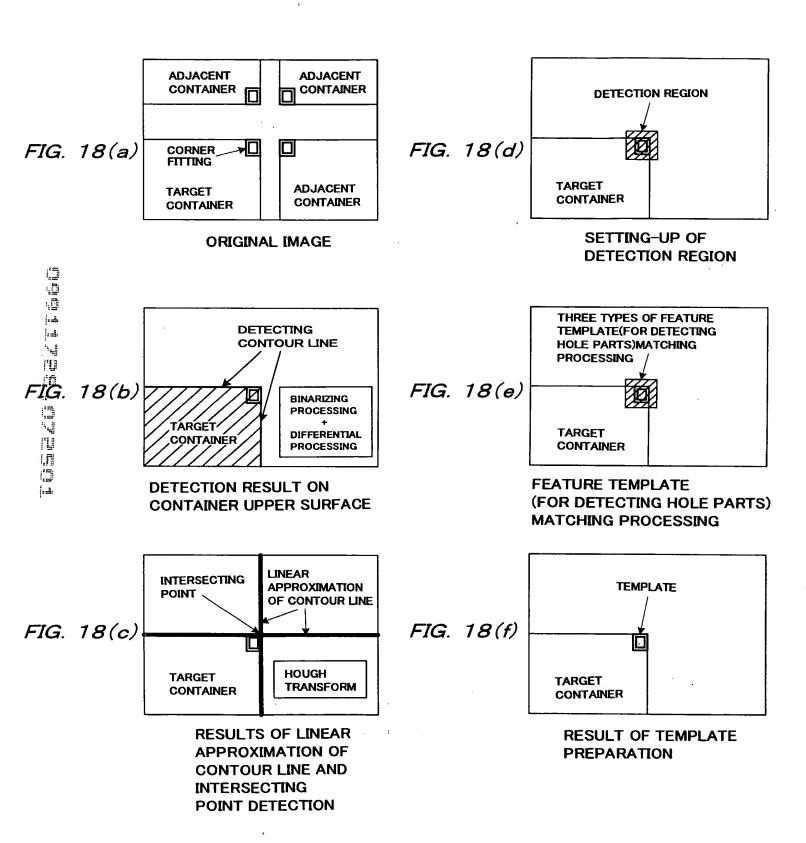


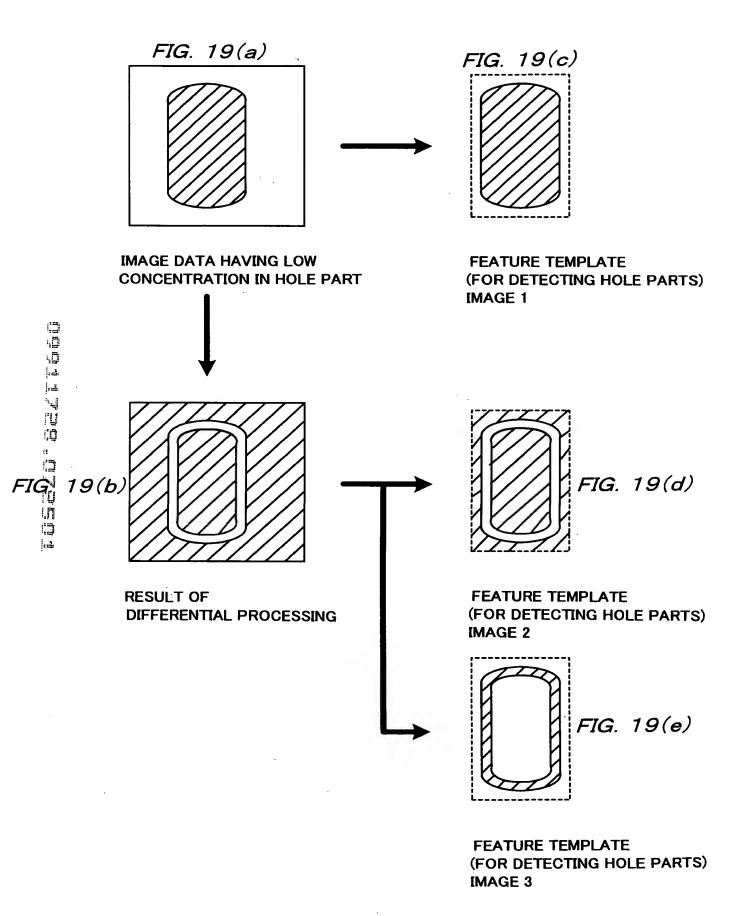


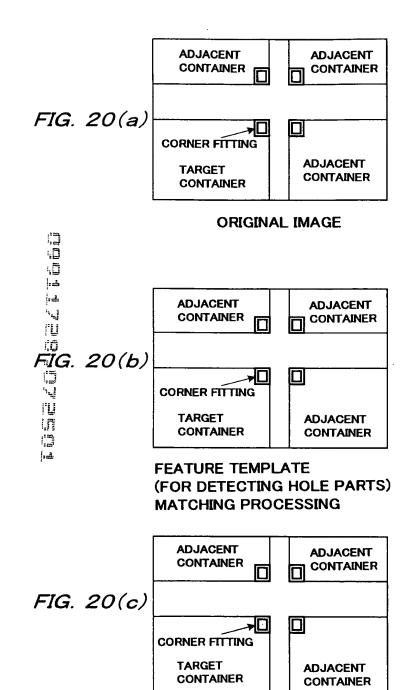








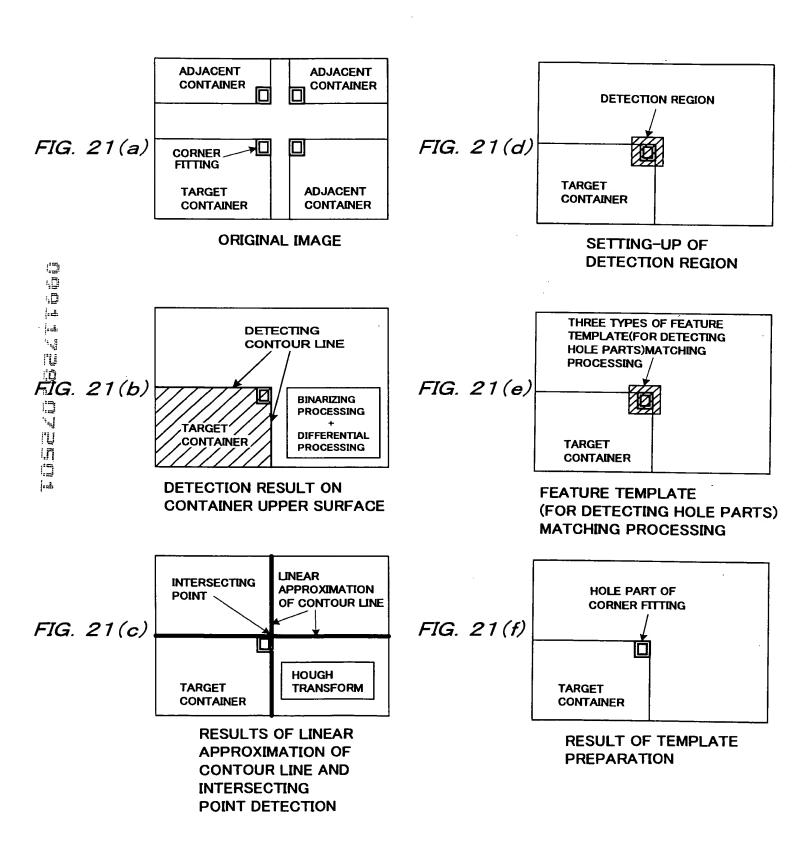


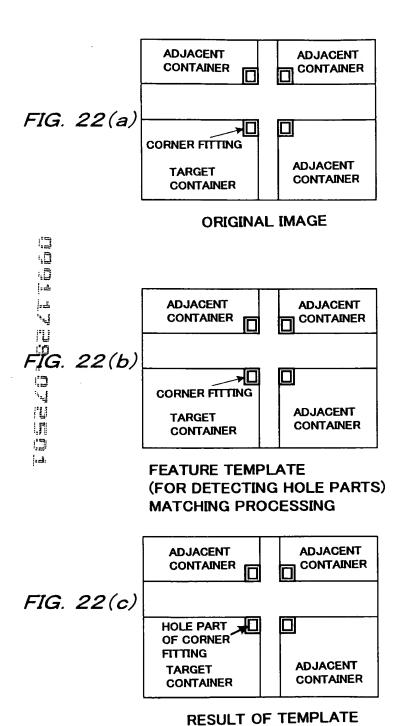


RESULT OF TEMPLATE

PREPARATION

THREE TYPES OF FEATURE TEMPLATE (FOR DETECTING HOLE PARTS) MATCHING PROCESSING (WHOLE IMAGE DATA)





PREPARATION

THREE TYPES OF FEATURE TEMPLATE (FOR DETECTING HOLE PARTS) MATCHING PROCESSING (WHOLE IMAGE DATA)